



# HYGIENETECH

Hygiene Technologies International, Inc.

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February 29, 2008

State of California  
Board of Equalization  
450 N Street  
Sacramento, California 94279

Document No. 20802001.4

Attention: Ramon J. Hirsig

Regarding: 10<sup>th</sup> Floor Break Room

Dear Mr. Hirsig:

On various dates in January and February of 2008, Hygiene Technologies International, Inc. (HygieneTech) industrial hygienists performed mold growth and exposure assessment surveys in and near the 10<sup>th</sup> Floor Break Room 1004 at the Board of Equalization building located at the above-referenced address. As you know, at sometime in late January, 2008, a water loss occurred affecting the 10<sup>th</sup> Floor that area of the building and, therefore, the primary purpose of the surveys was to characterize the mold spore exposure potentials for building occupants in the vicinity of that Break Room. During those surveys, air samples were collected at varying 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, and/or 11<sup>th</sup> floor locations for total (viable and nonviable) fungi analyses; samples that were collected using a Zefon brand Bio-Pump<sup>™</sup> equipped with Allergenco-D<sup>™</sup> cassettes. Note that air samples were also collected outdoors on each survey date for comparison purposes. Air samples for viable fungi were collected on the 10<sup>th</sup> Floor on February 1, 2008 using a Gast brand high volume air-sampling pump equipped with an Aerotech 6<sup>™</sup> Single Stage Bioaerosol Sampler. Viable fungal spores were impacted onto suitable growth media (malt extract agar) and incubated prior to enumeration of colony-forming units per agar plate. Additionally, on a survey date in early February, 2008, surface samples were collected using Scotch<sup>®</sup> brand cellophane tape segments that were affixed to microscope slides. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. A summary of the survey findings follows.

On January 24, 2008, the analytical results showed that common spore types, such as ascospores, basidiospores, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, and smuts, were found outdoors. All types of fungi found outdoors were consistent with those found at the site in the past, and all data were found within expected ranges. In the building interior on the 10<sup>th</sup> Floor, HygieneTech recorded data that were unremarkable. At the various locations, basidiospores, *Bipolaris/Drechslera* group molds, *Cladosporium*, and colorless spores typical of *Penicillium* and *Aspergillus* species were found; all at low levels that were within expectations in buildings having typical indoor air quality.



HygieneTech returned to the 10<sup>th</sup> Floor and proceeded to collect additional airborne spore trap samples during the morning of January 29, 2008. Those samples were collected and analyzed in manners identical to those samples collected during the previous week. The resultant data indicated elevated levels of airborne spores inside the Break Room and an above-background level in one of the hallway locations. The remaining samples collected elsewhere on the 10<sup>th</sup> Floor were considered unremarkable.

On January 30, 2008, spore trap samples collected from within the 10<sup>th</sup> Floor Break Room 1004 and the neighboring hallways showed only low levels of common spore types, such as *Alternaria*, basidiospores, colorless spores typical of *Penicillium* and *Aspergillus* species, and/or smuts. All such data were considered unremarkable.

On February 1, 2008, additional surveys were performed on the 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, and the 11<sup>th</sup> Floors. Once again, the indoor data, both the airborne spore trap on all four floors and the viable samples on the 10<sup>th</sup> Floor, showed low levels of common fungal types that were within expectations in buildings having typical indoor air quality.

The surface samples collected on February 4, 2008 showed the presence of a minimal level of *Stachybotrys* that likely have settled on the refrigerator top surface. The remaining samples collected from representative surfaces within the Break Room 1004 and adjacent areas showed no evidence of fungal growth or above-background levels of fungal spores.

Remediation work was performed in the 10<sup>th</sup> Floor Break Room 1004 and any adjacent areas affected by this and any prior water intrusion episodes on February 15 through 17, 2008. On February 19, 2008, after completion of that work, HygieneTech collected clearance samples within the containment. Be advised that the airborne total fungi data recorded within the containment showed only low levels of common fungi such as *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, and/or smuts. The spore types detected indoors generally matched those found outdoors, and the overall spore counts within the containment were well below the overall datum recorded outdoors. Similarly, the surface sample data recorded on that day showed no evidence of fungal growth on any of the abated building materials surfaces tested. These data do not represent conditions that are expected to pose a health hazard to occupants above that posed by the outside environment where exposures to airborne and surface-borne fungi are known to exist. The survey results therefore satisfy the clearance criteria for fungal growth established for this project. HygieneTech offers the following additional conclusions, which are based collectively on all other data recorded during this phase of work.

- While an exposure potential to airborne mold spore suggestive of indoor growth did exist within the 10<sup>th</sup> Floor Break Room during the HygieneTech survey period on January 29, 2008, no other airborne spore count datum recorded after that survey was suggestive of an exposure potential to above-background levels of mold spores by building occupants on Floors 8, 9, 10, or 11. Therefore, the spore trap data recorded in the occupied areas noted did not represent conditions that are expected to pose a health hazard to occupants above that posed by the outside environment where exposures to airborne and surface-borne fungi are known to occur.
- All viable mold data recorded in selected occupied areas on the 10<sup>th</sup> Floor, which were unremarkable, did not represent conditions that are expected to pose a health hazard to occupants above that posed by the outside environment where exposures to airborne fungi are known to occur.

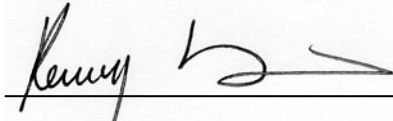


- The surface sample data recorded within the 10<sup>th</sup> Floor Break Room were not suggestive that excessive quantities of mold spores had settled on exposed materials by the time of the HygieneTech survey in which those samples were collected.

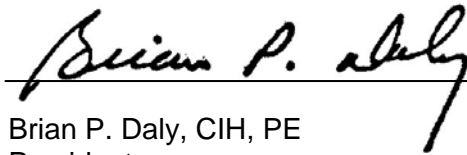
If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact me directly at (310) 370-8370.

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**



Kenny K. Hsi, CIH  
Technical Director



Brian P. Daly, CIH, PE  
President

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20801001-1  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
JANUARY 24, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM01OUT	20801001-TM09WF	20801001-TM10WF	20801001-TM11WF
SAMPLING LOCATION/ACTIVITIES	Outdoors: about 20 feet west of Day Care entrance door; approximately five feet above floor/Normal outdoor activities	Break Room 1004; about center; approximately five feet above floor/Sampling activities only	Conference Room 1002; about center; approximately five feet above floor/Sampling activities only	Room 1014; between Room 1003 and hallway; approximately five feet above floor/Normal office activities
START/STOP	10:56:00/11:01:00	13:56:00/14:01:00	14:04:00/14:09:00	14:12:00/14:17:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	1,070			
Aureobasidium				
Basidiospores	1,440		53	53
Bipolaris/Drechslera group		13		
Botrytis	13			
Chaetomium				
Cladosporium	533	53	53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types	107	53	107	107
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	27	<13	<13
Background particulates*	1+	2+	2+	2+
TOTAL **	3,176	159	213	160

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TABLE 20801001-1  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
JANUARY 24, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM12WF	20801001-TM13WF	20801001TM08OUTWF	
SAMPLING LOCATION/ACTIVITIES	Western hallway; about center; approximately five feet above floor/Normal office activities	Northern hallway; about five feet northeast of stairway exit; approximately five feet above floor/Normal office activities	Outdoors; about twenty feet west of Day Care entrance door; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank
START/STOP	14:20:00/14:25:00	14:26:00/14:31:00	12:02:00/12:07:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria				
Arthrimum				
Ascospores			587	
Aureobasidium				
Basidiospores	107		1,170	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	320	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		160	53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	40	
Background particulates*	2+	2+	1+	
TOTAL **	120	213	2,130	

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-3  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
JANUARY 29, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM301OUTWF	20801001-TM01JL	20801001-TM02JL	20801001-TM03JL
SAMPLING LOCATION/ACTIVITIES	Outdoors; parking lot; roof; about 100 feet west of building ; approximately five feet above deck/Normal outdoor activities	Break Room 1004; about center; approximately five feet above floor/Sampling activities only	Northern hallway; about three feet north of stairwell exit; approximately five feet above floor/Normal office activities	Room 1014; hallway; about six feet north of Room 1003; approximately five feet above floor/Normal office activities
START/STOP	09:01:00/09:06:00	09:16:00/09:21:00	09:33:00/09:38:00	09:40:00/09:45:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores	907			
Aureobasidium				
Basidiospores	3,040	213	107	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		240		
Cladosporium	427			
Curvularia				
Epicoccum	13			
Nigrospora				
Oidium				
Penicillium/Aspergillus types	107	5,830	53	107
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys		10,700	67	
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	213	<13	13
Background particulates*	2+	2+	2+	2+
TOTAL **	4,494	16,996	227	160

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-3  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
JANUARY 29, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM04JL	20801001-TM05JL	20801001-TM06JL	20801001-TM015OUTJL
<b>SAMPLING LOCATION/ACTIVITIES</b>	Room 1003; about center; approximately five feet above floor/Normal office activities	Western hallway; about three feet east of Conference Room 1002; approximately five feet above floor/Normal office activities	Conference Room 1002; about center; approximately five feet above floor/Sampling activities only	Outdoors; about 30 feet east of building; approximately five feet above ground/Normal outdoor activities
<b>START/STOP</b>	09:49:00/09:54:00	09:56:00/10:01:00	13:01:00/13:06:00	13:16:00/13:21:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				213
Aureobasidium				
Basidiospores	160	53	160	1,070
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53		53
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	160	1,000		267
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	27	13	<13	<13
Background particulates*	2+	2+	2+	1+
<b>TOTAL**</b>	373	1,106	160	1,603

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TABLE 20801001-33  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
JANUARY 30, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM401OUTWF	20801001-TM402WF	20801001-TM403WF	20801001-TM404WF
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 100 feet east of building; approximately five feet above ground/Normal outdoor activities	Northern hallway; about three feet north of northwestern stairwell entrance; approximately five feet above floor/Sampling activities only	Western hallway; about three feet east of Conference Room 1002; approximately five feet above floor/Sampling activities only	Break Room 1004; about center; approximately five feet above floor/Sampling activities only
<b>START/STOP</b>	05:16:00/05:21:00	5:43:00/5:48:00	5:48:00/5:53:00	6:02:00/6:07:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				13
Arthrimum				
Ascospores	320			
Aureobasidium				
Basidiospores	853	53	160	160
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107			
Curvularia				
Epicoccum				
Nigrospora	13			
Oidium				
Penicillium/Aspergillus types			53	53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	40	13	<13	<13
Background particulates*	2+	2+	2+	2+
<b>TOTAL **</b>	1,293	53	213	239

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.



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TABLE 20801001-33  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
JANUARY 30, 2008

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### Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM405OUTWF			
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 100 feet east of building; approximately five feet above ground/Normal outdoor activities			
START/STOP	6:15:00/6:20:00			
SAMPLE TIME	5 minutes			
Alternaria				
Arthrinium				
Ascospores	267			
Aureobasidium				
Basidiospores	1,230			
Bipolaris/Drechslera group				
Botrytis	13			
Chaetomium				
Cladosporium	160			
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	13			
Background particulates*	2+			
<b>TOTAL **</b>	1,670			

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-101  
AIRBORNE TOTAL FUNGI RESULTS  
8<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM501OUTWF	20801001-TM 44JL	20801001-TM45JL	20801001-TM46JL
<b>SAMPLING LOCATION/ACTIVITIES</b>	23 <sup>RD</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities	N22 area; Cubicle 152; about center; approximately five feet above floor/Normal office activities	K22 area; Cubicle 13; about center; approximately five feet above floor/Normal office activities	K18; area; Cubicle 65; about center; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	15:35:00/15:40:00	16:13:00/16:18:00	16:20:00/16:25:00	16:26:00/16:31:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrini				
Ascospores	653	13		13
Aureobasidium				
Basidiospores	640			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107		53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types		107	53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background particulates*	2+	2+	2+	2+
<b>TOTAL **</b>	<b>1,400</b>	<b>120</b>	<b>106</b>	<b>13</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-101  
AIRBORNE TOTAL FUNGI RESULTS  
8<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM47JL	20801001-48JL	20801001-49JL	20801001-TM510OUTWF
SAMPLING LOCATION/ACTIVITIES	K20 area; Cubicle 61; about center; approximately five feet above floor/Normal office activities	N20 and N19 area; file cabinet pathway; about center; approximately five feet above floor/Normal office activities	N18 area; northeastern corner; about center; approximately five feet above floor/Normal office activities	23 <sup>RD</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities
START/STOP	16:32:00/16:37:00	16:38:00/16:43:00	16:44:16:49	15:35:00/15:40:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				107
Aureobasidium				
Basidiospores				320
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	53	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types	53	107	53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	2+	2+	2+
TOTAL**	53	160	119	427

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-102  
AIRBORNE TOTAL FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM501OUTWF	20801001-TM38JL	20801001-TM39JL	20801001-TM40JL
<b>SAMPLING LOCATION/ACTIVITIES</b>	23 <sup>RD</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities	K22 area; Cubicle 74; about center; approximately five feet above floor/Normal office activities	K20 area; printer station; about center; approximately five feet above floor/Normal office activities	K18 area; six feet western of Cubicle 9; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	15:35:00/15:40:00	15:28:00/15:33:00	15:36:00/15:41:00	15:44:00/15:49:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrini				
Ascospores	653			
Aureobasidium				
Basidiospores	640			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107			13
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				13
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	2+	2+	2+
<b>TOTAL**</b>	<b>1,400</b>	<b>53</b>	<b>13</b>	<b>26</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-102  
AIRBORNE TOTAL FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM41JL	20710005-TM42JL	20710005-TM43JL	20801001-TM510OUTWF
<b>SAMPLING LOCATION/ACTIVITIES</b>	N18 area; Cubicle 152; about center; approximately five feet above floor/Normal office activities only	N20 area; printer station; about center; approximately five feet above floor/Normal office activates only	N22 area; northwestern corner; about center; approximately five/Normal office activities	23 <sup>RD</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities
<b>START/STOP</b>	15:51:00/15:56:00	15:58:00/16:03:00	16:06:00/16:11:00	15:35:00/15:40:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				107
Aureobasidium				
Basidiospores				320
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types	107	107	53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	2+	2+	2+
<b>TOTAL**</b>	<b>107</b>	<b>160</b>	<b>66</b>	<b>427</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20801001-103  
AIRBORNE TOTAL FUNGI RESULTS  
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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM501OUTWF	20801001-TM502WF	20801001-TM503WF	20801001-TM504WF
<b>SAMPLING LOCATION/ACTIVITIES</b>	23 <sup>rd</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above floor/Normal outdoor activities	Northern hallway; about ten feet east of northwestern corner; approximately five feet above floor/Normal office activities	Eastern hallway; about center; approximately five feet above floor/Normal office activities	Southern hallway; about center; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	15:35:00/15:40:00	16:10:00/16:15:00	16:18:00/16:23:00	16:28:00/16:31:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrini				
Ascospores	653			
Aureobasidium				
Basidiospores	640			13
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107		213	53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types		107	53	160
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	3+	2+	2+
<b>TOTAL**</b>	<b>1,400</b>	<b>120</b>	<b>266</b>	<b>226</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20801001-103  
AIRBORNE TOTAL FUNGI RESULTS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2008

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM505WF	20801001-TM506WF	20801001-TM507WF	20801001-TM508WF
<b>SAMPLING LOCATION/ACTIVITIES</b>	Room 1014; northeastern corner; N18 area; about two feet south of Cubicle 102; approximately five feet above floor/Normal office activities	Room 1014; northwestern corner; N22 area; about two feet of Cubicle 92; approximately five feet above floor/Normal office activities	Room 1014; between M22 and N22; western hallway; about center; approximately five feet above floor/Normal office activities	Room 1014; southwestern corner; K22 area; south end of western hallway; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	16:38:00/16:43:00	16:45:00/16:50:00	16:58:00/16:03:00	17:06:00/17:11:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				13
Penicillium/Aspergillus types	53	53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	3+	2+	2+	2+
<b>TOTAL**</b>	<b>53</b>	<b>53</b>	<b>&lt;13</b>	<b>13</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

**CLIENT: California State Board of Equalization  
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**TABLE 20801001-103**  
**AIRBORNE TOTAL FUNGI RESULTS**  
**10<sup>TH</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
**FEBRUARY 1, 2008**

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**Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)**

SAMPLE NUMBER	20801001-TM509WF	20801001-TM509WF	20801001-TM509WF	20801001-TM509WF
SAMPLING LOCATION/ACTIVITIES	Room 1014; southeastern corner; K18 area; east end of southern hallway; approximately five feet above floor/Normal office activities	23 <sup>rd</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above floor/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
START/STOP	17:14:00/17:19:00	17:21:00/17:26:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores		107		
Aureobasidium				
Basidiospores		320		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background particulates*	2+	2+		
<b>TOTAL **</b>	<b>53</b>	<b>427</b>		

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.



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CLIENT: California State Board of Equalization  
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Sacramento, California

**TABLE 20801001-105**  
**AIRBORNE VIABLE FUNGI RESULTS**  
**10<sup>th</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
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**Results reported in colony forming units per cubic meter of air (CFU/M<sup>3</sup>)**

SAMPLE NUMBER	20801001-VM101OUTWF	20801001-VM102WF	20801001-VM103WF	20801001-VM104WF
SAMPLING LOCATION/ACTIVITIES	23 <sup>rd</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities	Northern hallway; about ten feet east of northwestern corner; approximately five feet above floor/Normal office activities	Eastern hallway; about center; approximately five feet above floor/Normal office activities	Southern hallway; about center; approximately five feet above floor/Normal office activities
START/STOP	15:46:00/15:48:00	16:12:00/16:14:00	16:20:00/16:22:00	16:29:00/16:31:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger	1,010	18	548	495
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53		18	18
Curvularia				
Epicoccum				
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi				
Others				
Paecilomyces				
Penicillium			18	18
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
<b>TOTAL</b>	<b>1,063</b>	<b>18</b>	<b>584</b>	<b>531</b>

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization  
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**TABLE 20801001-105**  
**AIRBORNE VIABLE FUNGI RESULTS**  
**10<sup>th</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
**FEBRUARY 1, 2008**

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**Results reported in colony forming units per cubic meter of air (CFU/M<sup>3</sup>)**

SAMPLE NUMBER	20801001-VM105WF	20801001-VM106WF	20801001-VM107WF	20801001-VM108WF
SAMPLING LOCATION/ACTIVITIES	Room 1014; Column N18 area; about two feet south of Cubicle 102; approximately five feet above floor/Normal office activities	Room 1014; Column N22 area; about two feet south of Cubicle 92; approximately five feet above floor/Normal office activities	Room 1014; between Columns M22 and L22; western hallway; about center; approximately five feet above floor/Normal office activities	Room 1014; Column K22 area; southern end of western hallway; approximately five feet above floor/Normal office activities
START/STOP	16:39:00/16:41:00	16:52:00/16:54:00	17:00:00/17:02:00	17:08:00/17:10:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger		141	53	
Aspergillus other				
Aspergillus versicolor				
Aureobasidium		35		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			18	
Curvularia				
Epicoccum				
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi		18	18	
Others				
Paecilomyces				
Penicillium				
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
<b>TOTAL</b>	<b>&lt;18</b>	<b>194</b>	<b>89</b>	<b>&lt;18</b>

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

## APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California

**TABLE 20801001-105**  
**AIRBORNE VIABLE FUNGI RESULTS**  
**10<sup>th</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
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**Results reported in colony forming units per cubic meter of air (CFU/M<sup>3</sup>)**

SAMPLE NUMBER	20801001-VM109WF	20801001-VM100OUTWF		
SAMPLING LOCATION/ACTIVITIES	Room 1014; Column K18 area; eastern end of southern hallway; approximately five feet above floor/Normal office activities	23 <sup>rd</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above floor/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
START/STOP	17:15:00/17:17:00	17:22:00/17:24:00		
SAMPLE TIME	2 minutes	2 minutes		
Acremonium				
Alternaria				
Aspergillus flavus		18		
Aspergillus niger	18			
Aspergillus other				
Aspergillus versicolor				
Aureobasidium		18		
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Chlamydo-spore - former		35		
Cladosporium		159		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Non-sporulating fungi		247		
Paecilomyces				
Penicillium		18		
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
<b>TOTAL</b>	<b>18</b>	<b>495</b>		

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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TABLE 20801001-104  
AIRBORNE TOTAL FUNGI RESULTS  
11<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2007

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM501OUTWF	20801001-TM50JL	20801001-TM51JL	20801001-TM52JL
<b>SAMPLING LOCATION/ACTIVITIES</b>	23 <sup>RD</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities	K22 area; six feet northwestern of K22 column; about center; approximately five feet above floor/Sampling activities only	K20 area; about four feet eastern of K20 column; approximately five feet above floor/Sampling activities only	K18 area; about eight feet east of K18 column; approximately five feet above floor/Sampling activities only
<b>START/STOP</b>	15:35:00/15:40:00	16:56:00/17:01:00	16:57:00/17:02:00	17:04:00/17:09:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores	653		13	
Aureobasidium				
Basidiospores	640			13
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107	53		
Curvularia				
Epicoccum				13
Nigrospora				
Oidium				
Penicillium/Aspergillus types			53	53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	1+	1+	2+
<b>TOTAL **</b>	<b>1,400</b>	<b>53</b>	<b>66</b>	<b>79</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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## APPENDIX A



TABLE 20801001-104  
AIRBORNE TOTAL FUNGI RESULTS  
11<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 1, 2007

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### Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20801001-TM53JL	20801001-TM54JL	20801001-TM55JL	20801001-TM510OUTWF
<b>SAMPLING LOCATION/ACTIVITIES</b>	N18 area; Cubicle 61; about center; approximately five feet above floor/Sampling activities only	N20 area; Cubicle 48; about center; approximately five feet above floor/Sampling activities only	N22 area; Cubicle 38; about center; approximately five feet above floor/Sampling activities only	23 <sup>RD</sup> Floor; outdoors; eastern deck; northeastern corner; approximately five feet above deck/Normal outdoor activities
<b>START/STOP</b>	17:05:00/17:10:00	17:11:00/17:16:00	17:12:00/17:17:00	15:35:00/15:40:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				107
Aureobasidium				
Basidiospores				320
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	1+	2+	1+	2+
<b>TOTAL **</b>	<b>&lt;13</b>	<b>13</b>	<b>&lt;13</b>	<b>427</b>

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

## APPENDIX A



CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

**TABLE 20802001-1**  
**SURFACE FUNGAL GROWTH POTENTIALS**  
**10<sup>TH</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
**FEBRUARY 4, 2008**

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SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20802001-TL21AR	Room 1002; conference table; about center; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL22AR	Room 1002; folding table; about center; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL23AR	Northern hallway; northern partition wall; northwestern corner; fire extinguisher box; from horizontal surface	Light	Very few	None	None	Normal trapping
20802001-TL24AR	Room 1002; front door knob; about center; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL25AR	Western hallway; between Rooms 1002 and 1004; light switch; about center; from vertical surface	Scant	None	None	None	Normal trapping
20802001-TL26AR	Room 1014; Cubicle 66; western partition wall; about center; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL27AR	Room 1003; glass window; front side; about center; from horizontal surface of windowsill	Scant	None	None	None	Normal trapping
20802001-TL28AR	Room 1003; book shelf; southwestern corner; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL29AR	Room 1003; southwestern corner; metal cabinet; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL30AR	Room 1004; floor; about center; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL31AR	Room 1004; sink counter; about center; from horizontal surface	Scant	None	None	None	Normal trapping
20802001-TL32AR	Room 1004; white microwave; about center; from horizontal surface	Scant	None	None	None	Normal trapping

\*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

\*\*Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization  
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Sacramento, California 94279

TABLE 20802001-1  
SURFACE FUNGAL GROWTH POTENTIALS  
10<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 4, 2008

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SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20802001- TL33AR	Room 1004; western partition wall; upper cabinetry; about center; from horizontal surface	Moderate	Very few	None	None	Normal trapping
20802001- TL34AR	Room 1004; refrigerator top; about center; from horizontal surface	Light	Very few	1+ <i>Stachybotrys</i> species (spores, hyphae)	None	Minimal fungal growth or possible settling from fungal growth in vicinity

\*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

\*\*Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California Board of Equalization  
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Sacramento, California 94279

**TABLE 20802001-4**  
**AIRBORNE TOTAL FUNGI RESULTS**  
**CLEARANCE**  
**10<sup>TH</sup> FLOOR BREAK ROOM 1004**  
**SACRAMENTO, CALIFORNIA**  
**FEBRUARY 19, 2008**

**Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)**

SAMPLE NUMBER	20802001-TM130CJL	20802001-TM02CJL	20802001-TM03OUTCL	
SAMPLING LOCATION/ACTIVITIES	Break Room 1004; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Western hallway; within containment; about three feet east of Room 1004 entrance; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; about thirty feet southwest of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank
START/STOP	11:23:00/11:28:00	11:31:00/11:36:00	16:03:00/16:08:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria				
Ascospores			533	
Aureobasidium				
Basidiospores			587	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	693	
Epicoccum				
Microsporum				
Myrothecium				
Nigrospora				
Penicillium/Aspergillus types	53		160	
Pithomyces				
Rusts				
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Trichoderma				
Ulocladium				
Unidentified mitosporic fungi				
Unidentified zygomycetes				
Hyphal fragments	<13	<13	<13	
Background debris*	2+	2+	2+	
<b>TOTAL</b>	66	53	1,973	

\*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.



# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization  
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**TABLE 20802001-5**  
**SURFACE FUNGAL GROWTH POTENTIALS**  
**CLEARANCE**  
**10<sup>TH</sup> FLOOR BREAK ROOM 1004**  
**SACRAMENTO, CALIFORNIA**  
**FEBRUARY 19, 2008**

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20802001- TL501CJL	Break Room 1004; northern partition wall; about center; from horizontal surface of metal sole plate	Light	Very few	None	None	Normal trapping
20802001- TL502CJL	Break Room 1004; western partition wall; approximately two feet north of southern partition wall; from horizontal surface of metal sole plate	Light	Very few	None	None	Normal trapping
20802001- TL503CJL	Break Room 1004; floor; about center; from horizontal surface of concrete	Moderate	Very few	None	None	Normal trapping

\*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

\*\*Quantities of fungi are graded (from least to greatest) as <1+ to 4+.